

CLAIMS:

1. A multi-piece solid golf ball comprising a solid core and a cover of two inner and outer layers surrounding the core, the outer cover layer having a surface formed with a plurality of dimples, characterized in that

a product of the Shore D hardness of said inner cover layer multiplied by the Shore D hardness of said outer cover layer and a proportion V_R (%) of the total of the volumes of

10 dimple spaces each defined below a plane circumscribed by the dimple edge to the overall volume of a phantom sphere given on the assumption that the golf ball surface is free of dimples satisfy any one of the following combinations (1) to (5):

15 (1) the product of Shore D hardnesses of inner and outer
cover layers: 1,500 to less than 2,000 /

V_R : 0.80 to 0.95%

(2) the product of Shore D hardnesses of inner and outer cover layers: 2,000 to less than 2,500

20 $V_R: 0.75 \text{ to } 0.95\%$

(3) the product of Shore D hardnesses of inner and outer cover layers: 2,500 to less than 3,000

V_R : 0.70 to 0.95%

(4) the product of Shore D hardnesses of inner and outer
25 cover layers: 3,000 to less than 3,500

V_R : 0.65 to 0.95%

(5) the product of Shore D hardnesses of inner and outer cover layers: 3,500 to 4,000

V_R : 0.60 to 0.90%.

30 and said dimples include at least three types of dimples
which are different in at least one of a diameter, a depth,
and a value V_0 which is the volume of one dimple space
defined below a plane circumscribed by the dimple edge
divided by the volume of a cylinder whose bottom is the
35 plane and whose height is the maximum depth of the dimple
from the bottom.

2. The multi-piece solid golf ball of claim 1 wherein the solid core has a distortion of 2.6 to 6.5 mm under an applied load of 100 kg.

5 3. The multi-piece solid golf ball of claim 1 ~~wherein~~ wherein both the hardnesses of the inner and outer cover layers are up to 63 in Shore D hardness.

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